

Amendment to the Claims

Claims 1-14 are canceled.

15. (currently amended) A method of calibrating a plurality of seismic sensors, each sensor having an axis of sensitivity, comprising:

~~coupling~~ positioning the sensors with each sensor positioned with its axis of sensitivity in a different spatial direction;

rotating the sensors;

measuring one or more output signals from the sensors;

processing the one or more output signals from the sensors; and storing one or more calibration coefficients.

16. (previously presented) The method of claim 15, wherein the sensors comprise micro-machined accelerometers.

17. (previously presented) The method of claim 15, wherein coupling the sensors with each sensor positioned with its axis of sensitivity in a different spatial direction comprises, coupling the sensors with the axes of sensitivity in:

a first direction;

a second direction; and

a third direction.

18. (previously presented)The method of claim 15, wherein rotating the sensors comprises, rotating the sensors about the x-axis, the y-axis and the z-axis.

19. (previously presented)The method of claim 15, wherein measuring one or more output signals from the sensors comprises, measuring the output signals from the sensors at one or more angles of rotation.

20. (previously presented)The method of claim 15, wherein processing the output signals from the sensors comprise, calculating one or more calibration coefficients from the measured output signals of the sensors.

21. (previously presented)The method of claim 15, wherein each sensor further includes a corresponding ASIC having a local non-volatile memory; and wherein storing one or more calibration coefficients includes storing the corresponding calibration coefficients to the corresponding local non-volatile memories.

22. (currently amended)The method of claim 15, wherein storing one or more calibration coefficients includes storing the corresponding calibration coefficients to ~~an external a~~ database external to the sensors.

23. (previously presented)The method of claim 15, wherein coupling, rotating, measuring, and processing are provided in accordance with the Institute of Electrical and Electronic Engineers Specification IEEE 337-1972 for the IEEE Standard Specification

Format Guide and Test Procedure for Linear, Single-Axis, Pendulous, Analog Torque
Balance Accelerometer.

Claims 24-28 are cancelled.